

Pra tili n r' D k t N . 2229/150

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Applicant(s): Kamen et al.	Atty Dkt: 2229/150
Serial No: TBA	Art Unit: TBA
Date Filed: Herewith	Examiner: TBA
Invention: Regenerator for a Stirling Engine	

**Commissioner for Patents**  
**Alexandria, VA 22313-1450**

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
 WITHIN THREE MONTHS OF FILING OR  
 BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. § 1.97(b))**

*NOTE: "An information disclosure statement shall be considered by the Office if filed by the applicant. (1) within three months of the filing date of a national application; (1) within three months of the date of entry of the national stage as set forth in § 1.491 in an International application; or (3) before the mailing date of a first Office action on the merits, whichever event occurs last." 37 C.F.R. § 1.97(b)*

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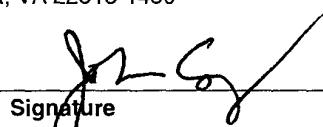
**CERTIFICATE of MAILING/TRANSMISSION (37 C.F.R. § 1.8(a))**

I hereby certify that this correspondence is, on the date shown below, being:

**MAILING****FACSIMILE**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 | <input type="checkbox"/> transmitted by facsimile to the Patent and Trademark Office. |
|---|---|

Date: July 2, 2003

  
Signature

John L. Conway

(type or print name of person certifying)

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office)

**NOTE:** The "filing date of a national application" under 37 C.F.R. § 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark Office, the filing is defined in 37 C.F.R. § 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 C.F.R. § 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the basic national fee; (2) a copy of the international application, unless already sent by the International Bureau, and optionally an English translation if filed in another language; and, also optionally (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. The optional items must be submitted later, with surcharges. 37 C.F.R. § 1.97(b)(2).

### **IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT**

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. § 1.97(b).

**NOTE:** "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing."

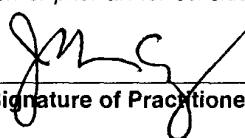
**NOTE:** "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 C.F.R. 1.8, or Express Mail certificate under 37 C.F.R. 1.10. An Office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**NOTE:** "The term 'national application' includes continuing applications (continuations, divisions, continuations-in-part) so three-months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**NOTE:** "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirements (37 C.F.R. 1.142) or just a requirement for additional fees to have a claim considered (37 C.F.R. 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosures statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

**WARNING:** "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. § 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63).

Reg. No.: 48,241



Signature of Practitioner

Tel. No.: 617/443-9292

John L. Conway

Customer No.: 002101

Bromberg & Sunstein LLP  
125 Summer Street, Boston, MA 02110

(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action)

**Practitioner's Docket No. 2229/150****PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Applicant(s): Kamen et al.

Atty Dkt: 2229/150

Serial No: TBA

Art Unit: TBA

Date Filed: Herewith

Examiner: TBA

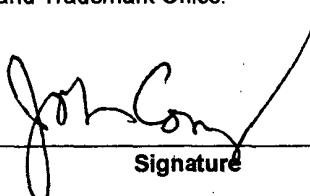
Invention: Regenerator for a Stirling Engine

**Commissioner for Patents  
Alexandria, VA 22313-1450****INFORMATION DISCLOSURE STATEMENT****CERTIFICATE UNDER 37 C.F.R. § 1.8(a) and 1.10\****(When using Express Mail, the Express Mail label number is mandatory;  
Express Mail certification is optional.)*

I hereby certify that this correspondence is, on the date shown below, being:

**MAILING**deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents  
P.O. Box 1450, Alexandria, VA 22313-1450 **37 C.F.R. § 1.8(a)****37 C.F.R. § 1.10\*** with sufficient postage as first class mail. as "Express Mail Post Office to Addressee"  
Mailing Label No. \_\_\_\_\_ (**mandatory**)**TRANSMISSION** transmitted by facsimile to the Patent and Trademark Office.Date: July 2, 2003

Signature

John L. Conway

(type or print name of person certifying)

**NOTE:** "An information disclosure statement shall be considered by the Office if filed by the applicant within any one of the following time periods:

- (1) Within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
- (2) Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application;
- (3) Before the mailing date of a first Office action on the merits; or
- (4) Before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114."

37 C.F.R. § 1.97(b).

**NOTE:** "Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section." 37 C.F.R. § 1.56(a).

"Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) each inventor named in the application;
- (2) each attorney or agent who prepares or prosecutes the application; and
- (3) every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application." 37 C.F.R. § 1.56(c).

**NOTE:** The "duty as described in § 1.56 will be met so long as the information in question was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98 before issuance of the patent." Notice of January 9, 1992, 1135 O. G. 13-25 at 17.

**WARNING:** "No information disclosure statement maybe filed in a provisional application." 37 C.F.R. § 1.51(d).

### List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

(check sections forming a part of this statement: discard unused sections and number pages consecutively)

1.  Preliminary Statements
2.  FORMS PTO/SB/08A and 08B (formerly FORM PTO-1449)
3.  Statement as to Information Not Found in Patents or Publications
4.  Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
5.  Cumulative Patents or Publications
6.  Copies of Listed Information Items Accompanying This Statement
7.  Concise Explanation of Non-English Language Listed Information Items
  - 7A.  EPO Search Report
  - 7B.  English Language Version of EPO Search Report
8.  Translation(s) of Non-English Language Documents
9.  Concise Explanation of English Language Listed Information Items (Optional)
10.  Identification of Person(s) Making This Information Disclosure Statement

**NOTE:** "Once the minimum requirements are met the examiner has an obligation to consider the information." Notice of April 20, 1992 (1138 O.G. 37-41, 37).

**S e c t i o n 1. P r e l i m i n a r y S t a t e m e n t s**

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

**SECTION 2. FORMS PTO/SB/08A and 08B (formerly Form PTO-1449)**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kamen et al.

Atty Dkt: 2229/150

Serial No: TBA

Art Unit: TBA

Date Filed: Herewith

Examiner: TBA

Invention: Regenerator for a Stirling Engine

**LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS'  
INFORMATION DISCLOSURE STATEMENT  
United States Patents**

Examiner Initials	Reference Number	Document Number	Issue Date	Inventor
	AA	2,564,100	Aug. 14, 1951	du Pré, F.
	AB	4,172,363	Oct. 30, 1979	Bex, P.
	AC	4,416,114	Nov. 22, 1983	Martini, W.
	AD	5,743,091	April 28, 1998	Penswick, et al.
	AE	5,675,974	Oct.14, 1997	Heidkrodt et al.
	AF	6,347,453	Feb. 2002	Mitchell
	AG	4,041,592	Aug. 1977	Kelm
	AH	3,742,578	Jul. 1973	Dirne et al
	AI	4,192,241	Mar. 1980	Brennan
	AJ	3,782,457	Jan 1974	Troy

**Foreign Patent Documents**

Examiner Initials	Reference Number	Document Number	Issue Date	Country
	AK	58117995	13-07-83	Japan
	AL	02091463	30-03-90	Japan
	AM	07151402	16-06-95	Japan
	AN	DE 39 34 545 A 1	2-5-91	Germany
	AO	WO 91/05949	2- 5- 91	PCT
	AP	DE 295 20 864 U 1	23-5-96	Germany

## Other Documents

Examiner Initials	Reference Number	Author	Title of Article, Title of Item, Date, Page(s), Volume-Issue Number(s)	
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Examiner Initials	Reference Number	Author	Date	Title
	AQ	Hargreaves		"The Regenerator", <i>The Philips Stirling Engine</i> , 1991
	AR			International Search Report, PCT/US01/40200, dtd. November 8, 2001

Examiner Signature: \_\_\_\_\_

Date Considered: \_\_\_\_\_

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

**Section 4. Identification of Prior Application in Which Listed Information Was Already Cited**

**NOTE:** "A copy of any patent, publication or other information listed in an information disclosure statement is not required to be provided if it was previously cited by or submitted to the Office in a prior application, provided that the prior application is properly identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120." 37 C.F.R. § 1.98(d).

**WARNING:** "This exception to the requirement for copies of information does not apply to information which was cited in an international application under the Patent Cooperation Treaty." Notice of April 20, 1992 (1138 O.G. 37-41, 38)

**WARNING:** "Information which is cited or submitted to the Office in the parent application of a file wrapper continuing application under 37 C.F.R. 1.62 will be part of the file before the examiner and need not be resubmitted in the continuing application. Likewise, the examiner will consider information cited or submitted to the Office in a parent application when examining a continuing application and thus this information need not be resubmitted unless applicant desires the information to be printed on the patent." Notice of April 20, 1992 (1138 O.G. 37-41, 37)

**WARNING:** While a copy of a non-English language item of information need not be submitted, if it was previously submitted to, or cited by, the Office in a prior application, provided it is properly identified in this statement and this application relies on that earlier filing date under 35 U.S.C. 120, nevertheless, the requirement in § 1.98(a)(3) for a concise explanation of non-English language information would not be satisfied by a statement that a reference was cited in the prosecution of a parent application. The concise explanation must explain the relevance, as presently understood by the person designated in § 1.56(c) most knowledgeable about the content of the information. Notice of January 9, 1992, 1135 O.G. 13-25, at 20.

The present application is a divisional of U.S. application S.N. 09/818,321, filed March 27, 2001, Atty Dkt. 2229/122, itself a continuation-in-part of U.S. application S.N. 09/517,245, filed March 2, 2000, itself a continuation-in-part application of U.S. application S.N. 09/115,383, filed July 14, 1998 a continuation-in-part also of S.N. 09/115,381, filed July 14, 1998.

All references in section 2 were submitted to, and /or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application.

(Information Disclosure Statement-Section 4. Identification of Prior Application in Which Listed Information Was Already Submitted and for Which No Copies Are Submitted or Need Be Submitted

**Section 6. Copies of Listed Information Items Accompanying This Statement**

*NOTE: 37 C.F.R. § 198(a)(2) requires that any information disclosure statement filed under § 1.97 shall include:*

*"A legible copy of:.*

- (i) Each U.S. patent application publication and U.S. and foreign patent;*
- (ii) Each publication or that portion which caused it to be listed,*
- (iii) For each cited pending U.S. application, the application specification including the claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion. . .*

Legible copies of all items listed in Forms PTO/SB/08A and 08B (formerly Form PTO-1449) accompany this information statement.

*(complete the following, if applicable)*

Exception(s) to above:

Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.

**S e c t i o n 10. I d e n t i f i c a t i o n o f P r o p r e t y M a k i n g T h i s I n f o r m a t i o n D i s c l o s u r e S t a t e m e n t**

The person making this statement is

(check each applicable item)

- (a)  the inventor(s) who signs below

---

**S I G N A T U R E O F I N V E N T O R**

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(type or print name of inventor who is signing)

- (b)  an individual associated with the filing and prosecution  
of this application (37 C.F.R. § 1.56(c))

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**S I G N A T U R E O F I N V E N T O R**

---

(type or print name of inventor who is signing)

- (c)  the practitioner who signs below on the basis of the information:

(check each applicable item)

- supplied by the inventor(s).  
 supplied by an individual associated with the filing and prosecution  
of this application. (37 C.F.R. § 1.56(c))  
 in the practitioner's file

Reg. No.: 48,241

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**S I G N A T U R E O F P R A C T I T I O N E R**

Tel. No.: 617/443-9292

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John L. Conway

(type or print name of person certifying)

Bromberg & Sunstein LLP

125 Summer Street

Boston, MA 02110-1618

(Information Disclosure Statement-Section 10. Identification of Person(s) Making This Information Disclosure Statement [6-1]-  
02229/00150 248816.1